THE MINERAL INDUSTRY OF ALGERIA

By Philip M. Mobbs

In 2004, hydrocarbons remained the leading component of Algeria's mineral industry and national economy. The mineral industry also produced modest amounts of diverse metals, industrial minerals, and mineral-based commodities, such as ammonia, clay, cement, helium, iron ore, mercury, methanol, phosphate rock, salt, and steel. The Algerian gross domestic product (GDP) based on purchasing power parity was \$217.2 billion¹ in 2004 and the GDP per capita based on purchasing power parity was \$6,722 (International Monetary Fund, 2005§²).

Trade

Most Algerian exports were shipped through the country's eight main seaports or by pipeline. The border with Morocco remained closed. The Société Nationale des Transports Ferroviaires moved about 25% of the imported cement inland from coastal ports. Hydrocarbon shipments transited primarily through the Ports of Arzew-Béthioua, Béjaïa, and Skikda. In 2004, total exports of goods and services from Algeria were valued at more than \$34 billion and imports were valued at \$21.8 billion. Exports of hydrocarbons were valued at more than \$31.54 billion compared with about \$24 billion in 2003. Exports of crude oil and condensate (petroleum liquids at surface pressure and temperature that were recovered as a coproduct of natural gas production) were valued at about \$17.43 billion in 2004 compared with about \$11.3 billion in 2003. Other Algerian hydrocarbon exports in 2004 included natural gas (by pipeline), with a value of about \$4.74 billion; liquefied natural gas, (LNG), \$3.74 billion; refined petroleum products, \$3.04 billion; and liquefied petroleum gas, \$2.59 billion (Banque d'Algeria, 2005§; Ministère de l'Energie et des Mines, 2005§).

Structure of the Mineral Industry

Nonfuel mineral operations fell under Mining law No. 01-10 of July 3, 2001, and Decree No. 02-65 of June 2, 2002. A proposed new hydrocarbon law that would alter the relationship between Government-owned oil and gas company Société Nationale pour la Recherche, la Production, le Transport, la Transformation, et la Commercialisation des Hydrocarbures s.p.a. (Sonatrach) and the oil industry was reintroduced in late 2004; the original bill had been withdrawn in 2003 pending Government elections in early 2004. The original version would have eliminated Sonatrach's monopoly on pipeline and refining operations, removed the requirement that Sonatrach acquire 50% interest in oilfield projects, and transferred exploration and production licensing to a yet-to-be-formed Government organization (Nield, 2005).

Subsidiary companies of the Ministère de l'Energie et des Mines were involved in most mineral production. In the nonfuel mineral sector, private companies and local government enterprises ran cement, clay, gold, gypsum, helium, iron ore, marble, salt, sand, steel, and stone operations. International oil companies operated primarily under contract to Sonatrach.

Commodity Review

Metals

Gold.—Enterprise d'Exploitation des Mines d'Or s.p.a. (ENOR) mined ore at Tirek and at Amesmessa, which is located about 60 kilometers (km) south of Tirek. In 2004, GMA Resources Plc of the United Kingdom, which held 52% interest in ENOR, proposed to build a 300,000-metric-ton-per-year (t/yr) processing plant at Amesmessa. Completion of the feasibility study for the proposed plant was expected in August 2005. GMA reported that a drill program at Amesmessa was completed. Based on the drilling results, the Amesmessa prospect was reevaluated as an open pit operation. ENOR originally planned to develop the deposit as an underground mine (GMA Resources Plc, 2005).

Lead, Silver, and Zinc.—By early 2004, ore production from the El Abed lead-zinc and the Kherzet Youcef zinc mines had ended. The Enterprise Nationale des Produits Miniers Non-Ferreux et des Substances Utiles, s.p.a. (ENOF) proposed to develop additional zinc resources at the Kherzet Youcef Mine and to renew efforts to develop the zinc resources at Oued Amizour. In 2003, the Ministère de l'Energie et des Mines proposed to convert the underground El Abed lead-zinc mine and surface facilities into a mining school.

Mercury.—ENOF suspended mercury production in June. Rehabilitation of the facilities at Ismail and M'Rasma continued at yearend (Mining Journal, 2004).

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¹Where necessary, currency values have been converted from Algerian dinars (DA) to U.S. dollars (US\$) at the average rate of DA74.15=US\$1.00 for 2004.

²References that include a section mark (§) are found in the Internet References Cited section.

Industrial Minerals

Cement.—In January, Algerian Cement Co. awarded the contract for a second 2.2-million-metric-ton-per-year (Mt/yr)-capacity cement line at the M'Sila facility to FL Smidth of Denmark and ORASCOM Construction Industries Algeria. Algerian Cement started its first 2.2-Mt/yr cement kiln in March (Middle East Economic Digest, 2004).

Nitrogen, Phosphate, and Sulfur.—Ammonia production dipped in 2004 when the Alzofert plant of the ASMIDAL Group was closed for a months-long maintenance program. Also in 2004, the Enterprise Nationale du Fer et du Phosphate s.p.a. (FERPHOS) requested bids on a feasibility study for a proposed fertilizer facility at Jijel. Plants planned for the FERPOHS facility included a 9,600-metric-ton-per-day (t/d)-capacity sulfuric acid plant, a 6,000-t/d ammonia plant, a 3,000-t/d diammonium phosphate plant, and a 1,000-t/d phosphoric acid plant (Enterprise Nationale du Fer et du Phosphate s.p.a., 2003, 2004§).

Mineral Fuels

Natural Gas.—On January 19, 2004, an explosion destroyed three LNG trains at the Sonatrach facility at Skikda and damaged the remaining trains. One of the damaged 1-billion-cubic-meter-per-year-capacity trains resumed production in May. A second train was ready to resume production at yearend. The third was expected to resume operations in mid-2005. Sonatrach proposed to replace the destroyed LNG trains at Skikda with a single more-than-4-billion-cubic-meter-per-year-capacity LNG train. Sonatrach initiated plans to build a 4-billion-cubic-meter-per-year-capacity LNG train at Arzew as part of the Gassi Touil Integrated Gas Project (Africa Energy Intelligence, 2005; Middle East Economic Digest, 2005).

The joint venture of BP p.l.c., Sonatrach, and Statoil ASA began production of natural gas from the In Salah project in June. Initial delivery of gas through a 460-km pipeline to the Sonatrach gas-gathering center at Hassi R'Mel began in July and reached a flow rate of about 9 billion cubic meters per year by yearend (Rigzone.com, 2004§).

The Ministère de l'Energie et des Mines proposed to eliminate flaring of natural gas associated with oil production by 2010. In 2003, the last year for which data were available, about 11% of the associated gas in Algeria was flared (Energie & Mines, 2004). Algeria's natural gas reserves were about 4.55 trillion cubic meters, which ranked the country eighth in the world (BP p.l.c., 2005,

Outlook

p. 20).

Owing to its location close to Europe (which was the major market for its minerals) and its hydrocarbon resources and associated infrastructure, Algeria's hydrocarbon sector is expected to continue to be a magnet for foreign direct investment, although with the recent lifting of economic sanctions, neighboring Libya is expected to siphon off some oilfield investment interest. Additional natural gas production projects that are under development in Algeria include the In Amenas project (production expected in 2005) and the Gassi Touil project (2007) (Medjelled, 2004).

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Major Sources of Information

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 $\label{eq:table1} \textbf{TABLE 1} \\ \textbf{ALGERIA: PRODUCTION OF MINERAL COMMODITIES}^{1}$

(Metric tons unless otherwise specified)

Condeminar refiner	Commodity ^{2, 3}	2000	2001	2002	2003	2004 ^p
From and steel:	METALS			0.5		
Iron or pross weight Thou sand metric tons Thou or pross weight Thou or pross weigh					-	
International Content	8		300	369	365	597
Metal:		1.645	1 201	1 202	1 270	1 414
Pig irone* do Steel, crude do Steel Steel do Steel	76 6	1,645	1,291	1,202	1,3/8	1,414
Steel, crude		1 100	1 250	1 200	1 200	1 200
Eadid			· ·			
Second		042	830	1,091	1,031	1,014
Metal_refined" 6,100 6,000 6,000 6,000 5,000 Mercury kilograms 215,625 320,091 307,119 175,600 90,000 Silver		Q1Q	801	1 105	r	
Mercury Kilograms 215,625 320,091 307,119 175,600 90,000 Silver do 1,400 1,700 1,400 500 100						
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Times	<u></u>				,	
Concentrate, Zn content Metal, smelter output		1,400	1,700	1,400	300	100
Metal, smelter outpute Shifter outpute Shi		10.452	10.693	8.576	2.796 r	231
Sarite, crude						25,000
Cement, hydraulic State		,,,,,,	,,,,,,	-,	,	-,
Cement, hydraulic State	Barite, crude	51,925	43,020	51,773	45,649	47,945
Bentonite		8,300	8,300	9,000	9,000	9,000
Fuller's earth 3,431 3,254 3,521 2,573 2,286 Kaolin 11,616 13,356 9,505 16,591 24,295 2,665 2,863 3,185 2,595 2,665						
Nacion	_ · · · · · · · · · · · · · · · · · · ·	22,708	21,286	27,178	25,346	30,319
Diatomite	Fuller's earth	3,431	3,254	3,521	2,573	2,284
Feldspar	Kaolin	11,616	13,356	9,505	16,591	24,299
Sypsum	Diatomite	2,500 e	2,863	3,185	2,595	2,665
Lime, hydraulic		707				
Lime, hydraulic	Gypsum ⁶ thousand metric tons	1,341	281	322	350	300
Blocks	Lime, hydraulic ^e	96,000	100,000	100,000	100,000	100,000
Crushed stone 81,907 109,872 108,682 105,249 120,666 Slabs thousand square meters 250 224 215 180 99 Nitrogen, N content of ammonia² 457,900 482,000 ° 563,100 578,200 542,800 Phosphate rock: Gross weight thousand metric tons 877 939 740 905 80: P₂O₂ content° do. 265 280 230 280 24 P₂O₂ content° 360,000 421,238 ° 4 451,000 500,000 436,000 Salt, brine and sea salt 182,000 184,682 205,321 191,017 183,000 Sulfur, S content of sulfuric acid° 11,800 7,200 19,300 20,000 20,000 MINERAL FUELS AND RELATED MATERIALS Coke thousand metric tons 409 441 450 ° 450 ° 400 Gas, natural: Gross million cubic meters 139,499 140,740 139,998 137,634 144,281 Dry8 do. 10	Marble					
Slabs	Blocks thousand cubic meters					22
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Phosphate rock: Gross weight thousand metric tons 877 939 740 905 805		250			180	99
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P2Os contente						
Pozzolan c						805
Salt, brine and sea salt 182,000 184,682 205,321 191,017 183,000 Sand thousand cubic meters 200 209 392 495 585 Sulfur, S content of sulfuric acide 11,800 7,200 19,300 20,000 20,000 MINERAL FUELS AND RELATED MATERIALS 409 441 450 ° 450 ° 400 Gas, natural: Gross million cubic meters 139,499 140,740 139,998 137,634 144,281 Dry ⁸ do. 100,092 102,332 101,557 98,754 98,111 Helium, liquide do. 10 16 17 19 15 Methanol NA 94,030 91,470 115,690 107,366 Natural gas plant liquids thousand 42-gallon barrels 95,619 99,800 100,850 98,100 98,500 Petroleum: Crude, including condensate do. 476,288 464,600 499,890 580,000 604,000 Refinery products: Liquefied petroleum						240
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Gas, natural: Gross million cubic meters 139,499 140,740 139,998 137,634 144,281 Dry8 do. 100,092 102,332 101,557 98,754 98,111 Helium, liquide do. 10 16 17 19 15 Methanol NA 94,030 91,470 115,690 107,360 Natural gas plant liquids thousand 42-gallon barrels 95,619 99,800 100,850 98,100 98,500 Petroleum: Crude, including condensate do. 476,288 464,600 499,890 580,000 604,000 Refinery products: Liquefied petroleum gas do. 6,322 6,600 6,870 7,050 6,650 Gasoline do. 17,964 17,390 16,540 16,150 16,420 Naphtha do. 12,458 11,510 10,770 10,170 7,820 Ecosene and jet fuel do. 12,458 11,510 10,770 10,170 7,820		400	441	450.6	450.6	400
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Refinery products: do. 6,322 6,600 6,870 7,050 6,650 Gasoline do. 17,964 17,390 16,540 16,150 16,420 Naphtha do. 32,124 34,370 33,690 34,230 25,450 Kerosene and jet fuel do. 12,458 11,510 10,770 10,170 7,820 Distillate fuel oil do. 44,820 49,790 45,100 46,150 43,000 Lubricants do. 770 790 875 980 1,130 Residual fuel oil do. 36,803 42,930 38,850 41,150 37,130 Other do. 3,044 2,850 2,690 2,120 2,350		176 200	161 600	400 800	590,000	604.000
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Other do. 3,044 2,850 2,690 2,120 2,350						
						2,350
	Total do.	154,305	166,230	155,385	158,000	139,950

See footnotes at end of table.

TABLE 1--Continued ALGERIA: PRODUCTION OF MINERAL COMMODITIES¹

^eEstimated; estimated data are rounded to no more than three significant digits; may not add to totals shown. ^pPreliminary. ^rRevised. NA Not available. -- Zero.

¹Table includes data available through September 6, 2005.

²In addition to the commodities listed, secondary aluminum, secondary lead, and secondary copper may be produced in small quantities; crude construction materials for local consumption, and copper, fertilizer, marble slabs, methanol, perlite, urea, and volcanic tuff are produced, but available information is inadequate to make estimates of production levels.

³In addition to the commodities listed, about 700 metric tons per year of caustic soda is estimated to have been produced.

⁴Reported figure.

⁵Erroneous cement units (metric tons instead of thousand tons) were used in previous Algeria production tables published during the period 1997 to 2000.

⁶Includes about 50,000 metric tons per year of plaster.

⁷Additional nitrogen was produced by Helios s.p.a., which is a helium liquids production company.

⁸Excludes gas used in flaring, reinjection, transmission losses, and venting.